



UNITED STATE PARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		A ⁻	TTORNEY DOCKET NO.
09/757,559	01/09/0)1 KHACHIGIAN		L	273402002020
_			\neg	EXAMINER	
MANCH THE 1	TOUNCTOR	HM12/0731		EPPS	т
MADELINE I. JOHNSTON MORRISON & FOERSTER LLP			1	ART UNIT	PAPER NUMBER
755 PAGE N PALO ALTO	1ILL ROAD CA 94304-1	.018		1635	4
				DATE MAILED:	07/31/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

•	Application N .	Applicant(s)	
•	09/757,555	KHACHIGIAN, LEVON MICHAEL	
Office Action Summary	Examiner	Art Unit	
	Janet L Epps	1635	
The MAILING DATE of this communication app Period for Reply	ars on the cov r sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	86(a). In no event, however, may a reply be tir within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).	
1) Responsive to communication(s) filed on <u>09 J</u>	anuary 2001 .		
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under the secondary conditions are secondary.			
Disposition of Claims			
4) Claim(s) 1-3 is/are pending in the application.			
4a) Of the above claim(s) is/are withdraw	vn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-3</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	r.		
10)☐ The drawing(s) filed on is/are: a)☐ accep	• • • • • • • • • • • • • • • • • • • •		
Applicant may not request that any objection to the			
11) The proposed drawing correction filed on		oved by the Examiner.	
If approved, corrected drawings are required in rep	•		
12) The oath or declaration is objected to by the Ex	ammer.		
Priority under 35 U.S.C. §§ 119 and 120	anionity under 25 H.C.C. \$ 110/	a) (d) or (f)	
13) Acknowledgment is made of a claim for foreign	priority under 35 O.S.C. 9 119(8	a)-(a) or (i).	
a) ☑ All b) ☐ Some * c) ☐ None of:	s have been received		
1. Certified copies of the priority documents2. Certified copies of the priority documents		ion No. 00/1/2 770	
Copies of the certified copies of the prior	••		
application from the International But * See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).		
14)☐ Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e) (to a provisional application).	
 a) ☐ The translation of the foreign language pro 15) ☐ Acknowledgment is made of a claim for domesting 			
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152) comply	
0.00			

Art Unit: 1635

DETAILED ACTION

Sequence Information

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice To Comply With Requirements For Patent Applications Containing Nucleotide Sequence And/Or Amino Acid Sequence Disclosures. See for example page 7; page 12, line 15; and page 18, Table 1.

A complete response to this Office Action requires that Applicants comply with the sequence rules, and that pending rejections be addressed. Any response that does not address all of these issues will be held as non-responsive. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

Oath/Declaration

2. The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

- (1) Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c). The zip code of the first named inventor has been altered, this change is not accompanied by the inventor's initials.
- (2) The filing date for 09/142,779 set forth in the declaration is 9-08-98, this data is inconsistent with PTO records which state that the filing date is 4-13-1999.

Art Unit: 1635

Priority

3. Applicant has not complied with one or more conditions for receiving the benefit of an earlier filing date under 35 U.S.C. 120 as follows: The first line of the specification states that US application 09/142,779 was filed on September 8,1998. However, according to PTO records the filing date for this US application was April 13, 1999.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 2-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-3 recite "[a] method as claimed in claim 1," this phrase is vague and indefinite since it renders the scope of these claims unclear. Since claims 2-3 are dependent on claim 1 which recites "a method," claims 2-3 should recite "[t]he method of claim 1." As per convention, independent claims normally begin with the definite article "A", and independent claims normally begin with the definite article "The".

Claim 3 recites "the group consisting of vascular cells, smooth muscle cells, endothelial cells and neoplasia cells." This group is vague and indefinite since it appears that the members of this Markush group are not mutually exclusive. According to the specification as filed (page 4, lines 20-21) "the cells are vascular cells, particularly smooth muscle or endothelial cells. The cells may, be cells involved in neoplasia." Therefore, all the members of the Markush group read on some form of vascular cell.

Art Unit: 1635

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claims 1-3 are rejected under 35 U.S.C. 102(a) as being anticipated by Muthukkumar et
- al. Claims 1-3 read on a method for screening for compounds which inhibit the proliferation of cells, comprising determining the ability of a putative compound to inhibit induction of Egr-1, decrease expression of Egr-1 or decrease the nuclear accumulation or activity of the Egr-1 gene product; wherein the method is performed in vitro; and further wherein the cells are selected from vascular cells, smooth muscle cells, endothelial cells and neoplasia cells.

Muthukkumar et al. teach a method comprising determining the ability of an phosphorothioate modified antisense oligonucleotide to inhibit the expression of EGR-1. This method was performed in human melanoma cells (p. 6268).

Muthukkumar et al. teach each and every aspect of the instant invention thereby anticipating Applicant's claimed invention.

8. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Hu et al.

Hu et al. examined the ability of atrial natriuretic peptide (ANP) and endothelin to regulate the expression and regulation of Egr-1 (Tis -8) in a rat glioma cell line (page 1825, paragraph 3, Figure 7).

Hu et al. teach each and every aspect of the instant invention thereby anticipating Applicant's claimed invention.

Art Unit: 1635

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Janet L Epps whose telephone number is 703-308-8883. The examiner can normally be reached on Mondays through Friday, 9:00AM to 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John LeGuyader can be reached on (703)-308-0447. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-746-5143 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Janet L Epps Examiner

Art Unit 1635

jle July 30, 2001

Notice to	Comply

Application No.	Applicant(s)	
09/757,555	Khachigian	
Examin r	Art Unit	
J. L. Epps	1635	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):
1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
∑ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).
7. Other:
Applicant Must Provide: ☑ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
\boxtimes An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).
For questions regarding compliance to these requirements, please contact:
For Rules Interpretation, call (703) 308-4216 For CRF Submission Help, call (703) 308-4212 PatentIn Software Program Support

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY